

IN THE CLAIMS

Claim 1 (currently amended): Claim 1 is an optical disk determination circuit that determines the kind of optical disk by detecting the distance from the light beam irradiation plane to the data recording layer, comprising:

- an input terminal that inputs received light signals, which correspond to the reflected light of a light beam, while the focal position changes in the depth direction of an optical disk;

- a clamp circuit that clamps the bottom level of the ~~aforementioned~~ received light signals at a specified level, and outputs this as a bottom level clamp signal;

- a comparator circuit that detects a first reflection signal at the surface of the optical disk, and a second reflection signal at the recording layer of the optical disk by comparing the ~~aforementioned~~ bottom level clamp signal with a reference voltage; and

- a calculation circuit that calculates the distance from the surface of the optical disk to the recording layer using the time difference between the ~~aforementioned~~ first reflection signal and the ~~aforementioned~~ second reflection signal based on said clamp signal.

Claim 2 (currently amended): An optical disk determination circuit described in Claim 1, having:

- a filter circuit that conducts specified signal processing in relation to the signals input from the ~~aforementioned~~ input terminal; and

- an amplifier circuit that amplifies the output signals of the ~~aforementioned~~ filter circuit and outputs them to the ~~aforementioned~~ clamp circuit.

Claim 3 (currently amended): An optical disk determination circuit described in Claim 2, having:

- a filter circuit that conducts specified signal processing on the output signals of the ~~aforementioned~~ clamp circuit.

Claim 4 (currently amended): An optical disk determination circuit described in ~~any of Claims~~ Claim 1 that determines whether an optical disk is a CD or a DVD corresponding to the distance from the surface of the optical disk to the recording layer.